

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Hiroshi KAYAKIRI, et al.

SERIAL NO: 10/047,093

GAU: 1625

FILED: January 17, 2002

EXAMINER: B. Dentz

FOR: SULFONAMIDE COMPOUNDS AND PHARMACEUTICAL USE THEREOF

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449 and cited in the attached Supplementary Partial European Search Report. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. **In accordance with discussions on August 4, 2004 with Mr. Nicholas P. Godici, Commissioner for Patents, it is no longer required to submit copies of cited pending applications. A modification of the Rules will be published soon in the Official Gazette.** Cited issued patents, if any, are listed on the attached PTO form 1449.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.
Norman E. Oblon


Thomas M. Cunningham

Registration No. 45,394

Customer Number

22850

Tel. (703) 413-3000
Fax. (703) 413-2220
(OSMMN 05/03)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Hiroshi KAYAKIRI, et al.

SERIAL NO: 10/047,093

GAU: 1625

FILED: January 17, 2002

EXAMINER: B. Dentz

FOR: SULFONAMIDE COMPOUNDS AND PHARMACEUTICAL USE THEREOF

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449 and cited in the attached Supplementary Partial European Search Report. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. **In accordance with discussions on August 4, 2004 with Mr. Nicholas P. Godici, Commissioner for Patents, it is no longer required to submit copies of cited pending applications. A modification of the Rules will be published soon in the Official Gazette.** Cited issued patents, if any, are listed on the attached PTO form 1449.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

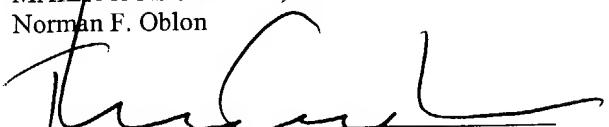
- Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.
Norman F. Oblon


Thomas M. Cunningham

Registration No. 45,394

Customer Number

22850

Tel. (703) 413-3000
Fax. (703) 413-2220
(OSMMN 05/03)

| Form PTO 1449 (Modified) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY DOCKET NO. 217318US0DIV | | SERIAL NO. 10/047,093 | |
|---|----|--|----------|---------------------------------|-------------|--------------------------|--|
| LIST OF REFERENCES CITED BY APPLICANT | | APPLICANT Hiroshi KAYAKIRI, et al. | | | | | |
| | | FILING DATE January 17, 2002 | | GROUP 1625 | | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
| AA | | | | | | | |
| AB | | | | | | | |
| AC | | | | | | | |
| AD | | | | | | | |
| AE | | | | | | | |
| AF | | | | | | | |
| AG | | | | | | | |
| AH | | | | | | | |
| AI | | | | | | | |
| AJ | | | | | | | |
| AK | | | | | | | |
| AL | | | | | | | |
| AM | | | | | | | |
| AN | | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | DATE | COUNTRY | TRANSLATION | | |
| | AO | 0 476 935 | 3/25/92 | EP | YES | | NO |
| | AP | WO 98/08818 | 3/5/98 | WIPO | | | |
| | AQ | WO 97/44321 | 11/27/97 | WIPO | | | |
| | AR | | | | | | |
| | AS | | | | | | |
| | AT | | | | | | |
| | AU | | | | | | |
| | AV | | | | | | |
| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) | | | | | | | |
| | AW | | | | | | |
| | AX | | | | | | |
| | AY | | | | | | |
| | AZ | | | | | | <input type="checkbox"/> Additional References sheet(s) attached |
| Examiner | | | | | | Date Considered | |
| <small>*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small> | | | | | | | |



P.B.5818 - Patentaan 2
2280 HV Rijswijk (ZH)
NL
+31 70 340 2040
TX 31651 epo nl
FAX +31 70 340 3016

Europäisches
Patentamt

Zweigstelle
In Den Haag
Recherche-
abteilung

European
Patent Office

Branch at
The Hague
Search
division

Office européen
des brevets

Département à
La Haye
Division de la
recherche

Gille Hrabal Struck Neidlein Prop Roos
Patentanwälte
Brucknerstrasse 20
40593 Düsseldorf
ALLEMAGNE

Gille Hrabal Struck
Neidlein Prop Roos

Eingang
am: - 8. Juli 2004

| | | |
|-------|----------|---------|
| Datum | Frist: | 12.1.05 |
| | Vorfrist | |

Datum/Date
12.07.04

| | |
|--|--|
| Zeichen/Ref./Réf. T 60 827 - mai | Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°. 98929715.5-2101-JP9802877 |
| Anmelder/Applicant/Demandeur/Patentinhaber/Propriétaire FUJISAWA PHARMACEUTICAL CO., LTD. | |

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





European Patent
Office

**SUPPLEMENTARY
PARTIAL EUROPEAN SEARCH REPORT**

Application Number

which under Rule 45 of the European Patent Convention EP 98 92 9715
shall be considered, for the purposes of subsequent
proceedings, as the European search report

| DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
|---|---|--|---|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (Int.CI8) |
| X | EP 0 476 935 A (LILLY INDUSTRIES LTD) 25 March 1992 (1992-03-25) * page 5, line 22 - line 31; examples 34,35 * | 1,13,14 | C07D215/48 C07D231/56 C07D235/26 C07D239/96 C07D241/52 C07D249/18 C07D307/79 C07D333/56 C07D333/54 C07D405/12 C07D409/12 C07D471/04 A61K31/437 A61K31/47 A61K31/34 A61K31/38 A61K31/415 A61K31/495 |
| P,X | WO 98/08818 A (GENETICS INST) 5 March 1998 (1998-03-05) * claims 1,14; examples 84,85 * | 1,12 | |
| P,X | WO 97/44321 A (GOULET MARK ; JIANG JINLONG (US); SMITH ROY G (US); ALLEN ERIC E (US);) 27 November 1997 (1997-11-27) * claims 1,19; example 3D * | 1,12 | |
| <p>The supplementary search report has been based on the last set of claims valid and available at the start of the search.</p> <p>INCOMPLETE SEARCH</p> <p>The Search Division considers that the present application, or some or all of its claims, does/do not comply with the EPC to such an extent that a meaningful search in the state of the art cannot be carried out, or can only be carried out partially, for the following claims:</p> <p>Claims searched completely:</p> <p>Claims searched incompletely:</p> <p>Claims not searched:</p> <p>Reason for the limitation of the search:</p> <p>see sheet C</p> | | | |
| 1 | Place of search | Date of completion of the search | Examiner |
| | The Hague | 1 July 2004 | Alfaro Faus, I |
| CATEGORY OF CITED DOCUMENTS | | <p>T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons A: member of the same patent family, corresponding document</p> | |
| <p>X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document</p> | | | |

European Patent
Office

PARTIAL EUROPEAN SEARCH REPORT

Application Number

EP 98 92 9715

| DOCUMENTS CONSIDERED TO BE RELEVANT | | | CLASSIFICATION OF THE APPLICATION (Int.Cl.) |
|-------------------------------------|---|-------------------|---|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | A61K31/505 |
| | | | TECHNICAL FIELDS SEARCHED (Int.Cl.) |
| | | | |

European Patent
OfficeINCOMPLETE SEARCH
SHEET CApplication Number
EP 98 92 9715

Although claim 13 IS directed to a method of treatment of the human/animal body (Article 52(4) EPC), the search has been carried out and based on the alleged effects of the compounds.

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 98 92 9715

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

01-07-2004

| Patent document cited in search report | | Publication date | | Patent family member(s) | Publication date |
|--|---|------------------|--|--|--|
| EP 0476935 | A | 25-03-1992 | | AT 125530 T CA 2051460 A1 DE 69111541 D1 DE 69111541 T2 DK 476935 T3 EP 0476935 A1 ES 2076477 T3 GR 3017390 T3 JP 3046861 B2 JP 4230661 A US 5185361 A | 15-08-1995 19-03-1992 31-08-1995 18-01-1996 11-09-1995 25-03-1992 01-11-1995 31-12-1995 29-05-2000 19-08-1992 09-02-1993 |
| WO 9808818 | A | 05-03-1998 | | AU 717430 B2 AU 4088297 A CA 2264020 A1 EP 0922028 A1 JP 2000516958 T WO 9808818 A1 | 23-03-2000 19-03-1998 05-03-1998 16-06-1999 19-12-2000 05-03-1998 |
| WO 9744321 | A | 27-11-1997 | | AU 706818 B2 AU 3132297 A CA 2254768 A1 EP 0901471 A1 JP 2000511533 T WO 9744321 A1 US 6147088 A | 24-06-1999 09-12-1997 27-11-1997 17-03-1999 05-09-2000 27-11-1997 14-11-2000 |